

PATENT CLAIMS

1. Arrangement for electrically connecting an electrical unit (9) to at least one electrical component (18) by means of a flexible foil conductor (6), wherein said electrical unit (9) comprises at least one electrical assembly (17) and is arranged inside a case (10) and wherein said at least one electrical component (18) is provided outside the case (10), characterized in that several assemblies (17) are provided inside the case (10), wherein each assembly (17) is connected to its associated electrical component/s (18) via a separate foil conductor (6).
2. Arrangement according to claim 1, characterized in that the case (10) comprises a top cover (4), a circumferential wall (2), a base plate (3) that preferably forms a single piece with the wall (2), and at least one bearing plate (5).
3. Arrangement according to claim 2, characterized in that the electrical unit (9) is mounted to the base plate (3) in such a manner that a space is formed between the electrical unit (9) and the circumferential wall (2), wherein the bearing plate (5) is arranged between the wall (2) and the electrical unit (9).
4. Arrangement according to any one of claims 2 or 3, characterized in that the base plate (3) comprises a recess (11) adjacent to an assembly (17), wherein electrical contacts (12) between the assembly (17) and the separate foil conductor (6) extend into the recess (11).
5. Arrangement according to claim 4, characterized in that at least one bearing plate (5) is arranged in the recess (11) of the base plate (3) in such a manner that the intermediate foil conductor (6) is connected to the case (10) in a sealing-tight, in particular, in an oiltight fashion.

6. Arrangement according to any one of claims 2 to 5, characterized in that the foil conductor (6) is integrally joined to at least one case part (3, 5) by, for example, adhesive bonding or laminating.
7. Arrangement according to any one of claims 2 to 6, characterized in that a seal (7) is arranged between at least one case part (3, 5) and the foil conductor (6), wherein the shape of the seal (7) preferably follows the shape of a front (13) of the recess (11).
8. Arrangement according to claim 7, characterized in that the case part (3, 5) that directly contacts the seal (7) is provided with a groove (14, 16) for receiving the seal (7).
9. Arrangement according to any one of the preceding claims, characterized in that the electrical unit (9) is a control device and that the electrical components (18) arranged outside the case (10) are actuators and/or sensors.